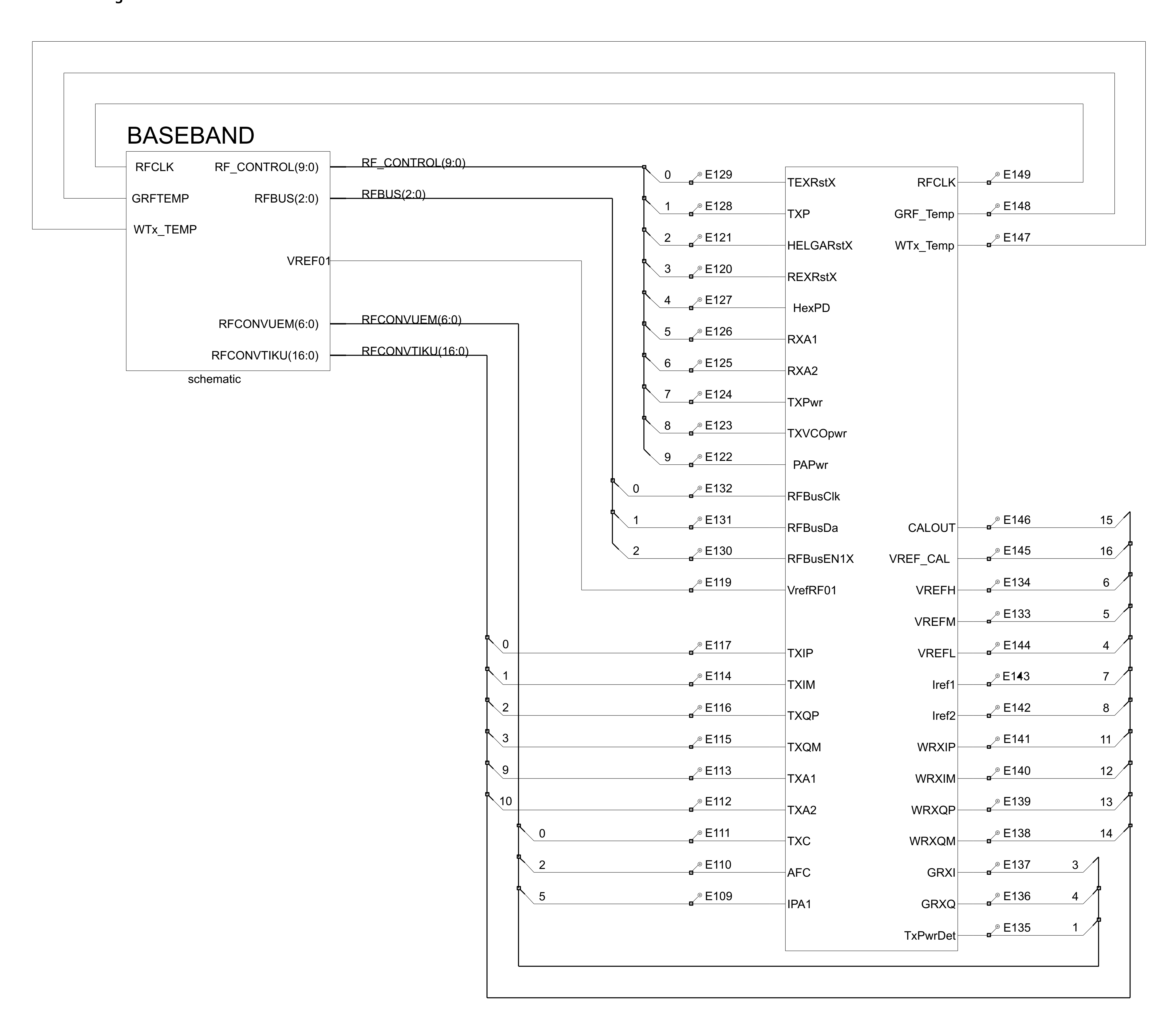
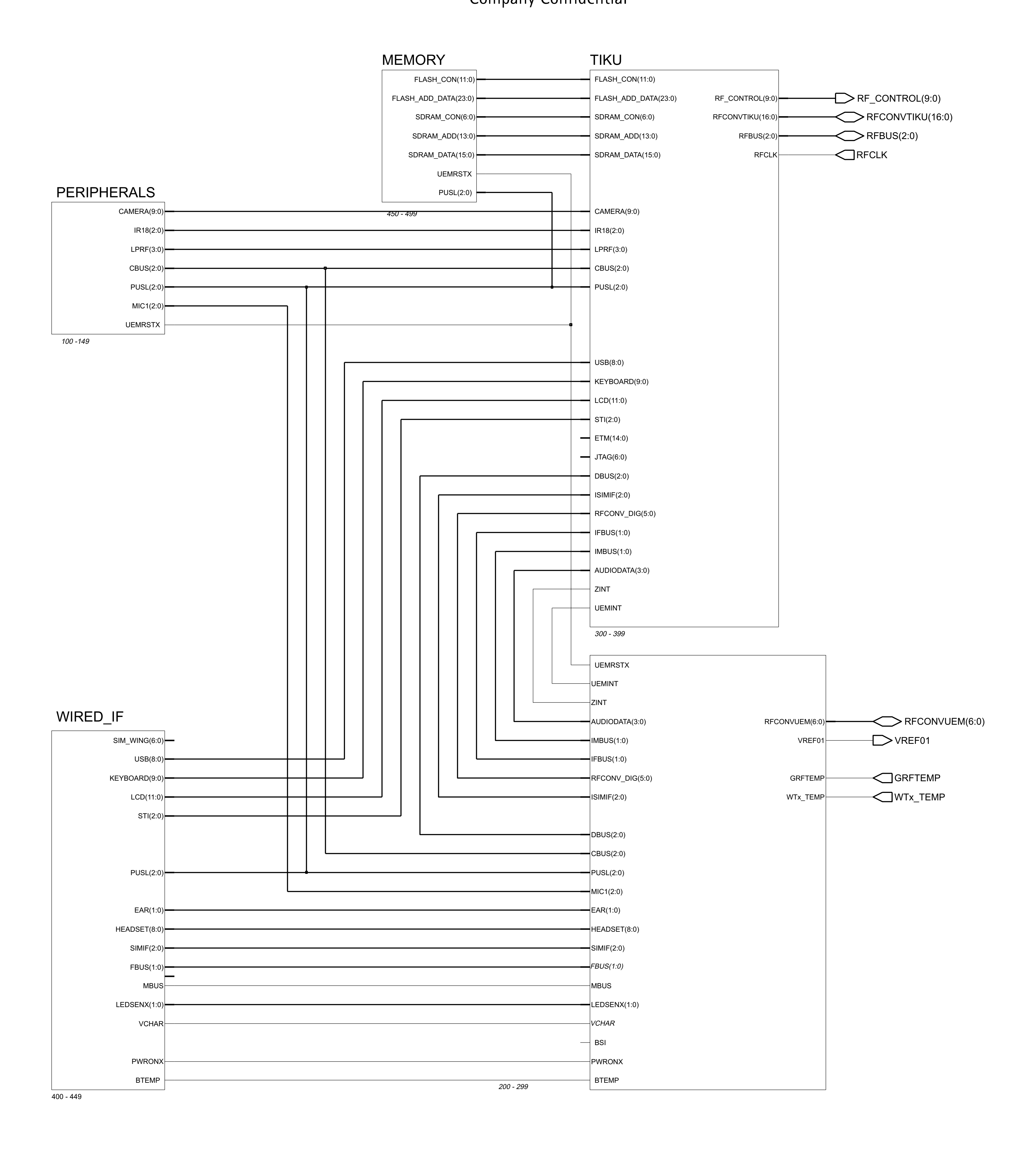
Chapter 8 - SCHEMATICS (Me8_20 Version_5 PWB)

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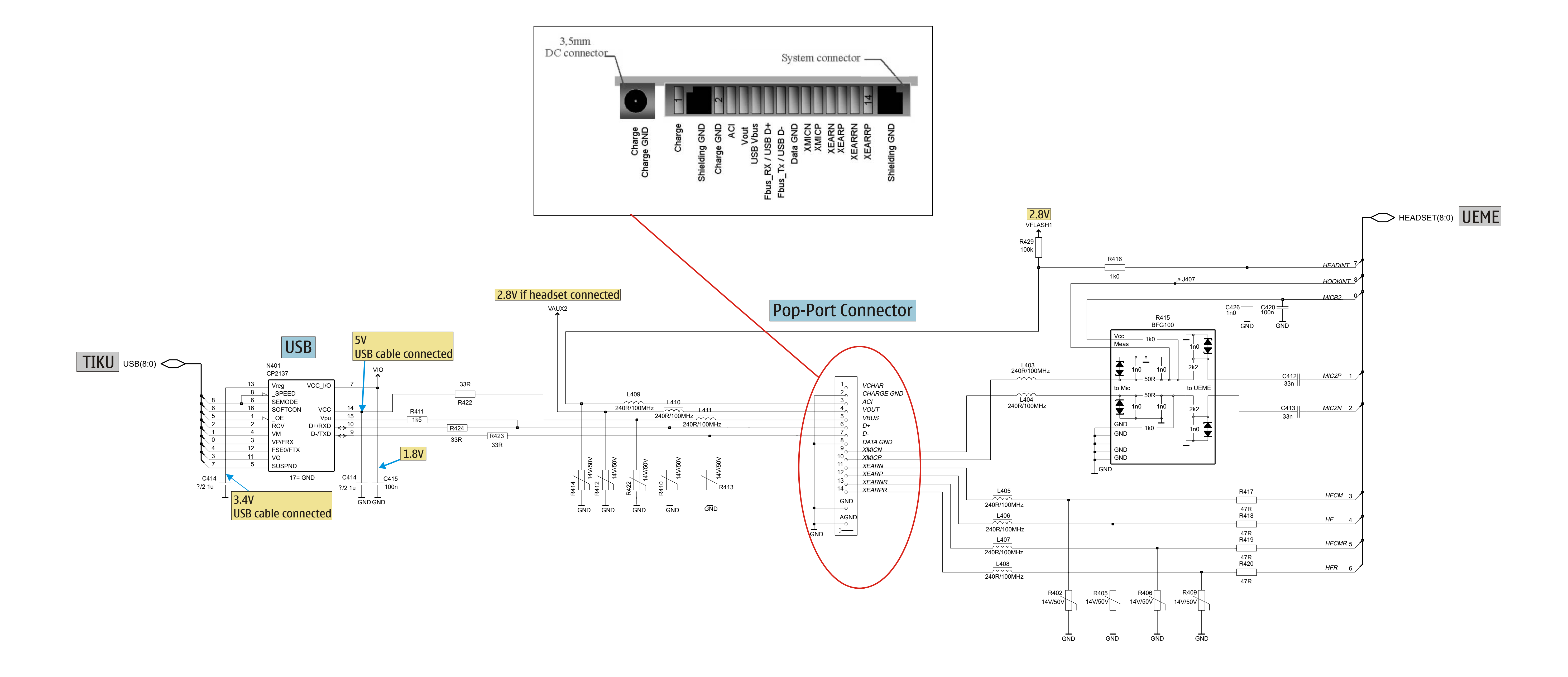
Title: BB + RF Block Diagram



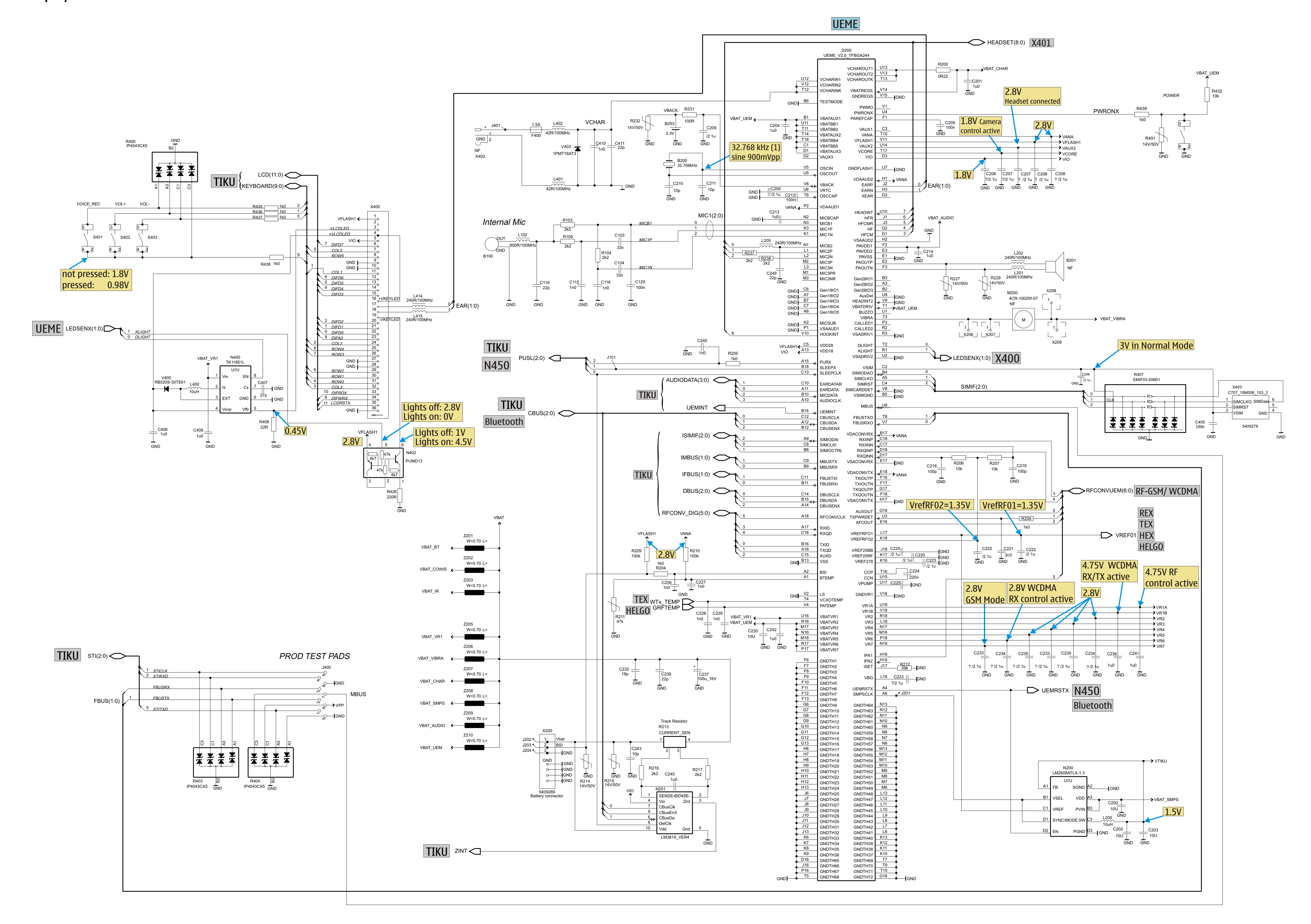
Title: Baseband Block Diagram



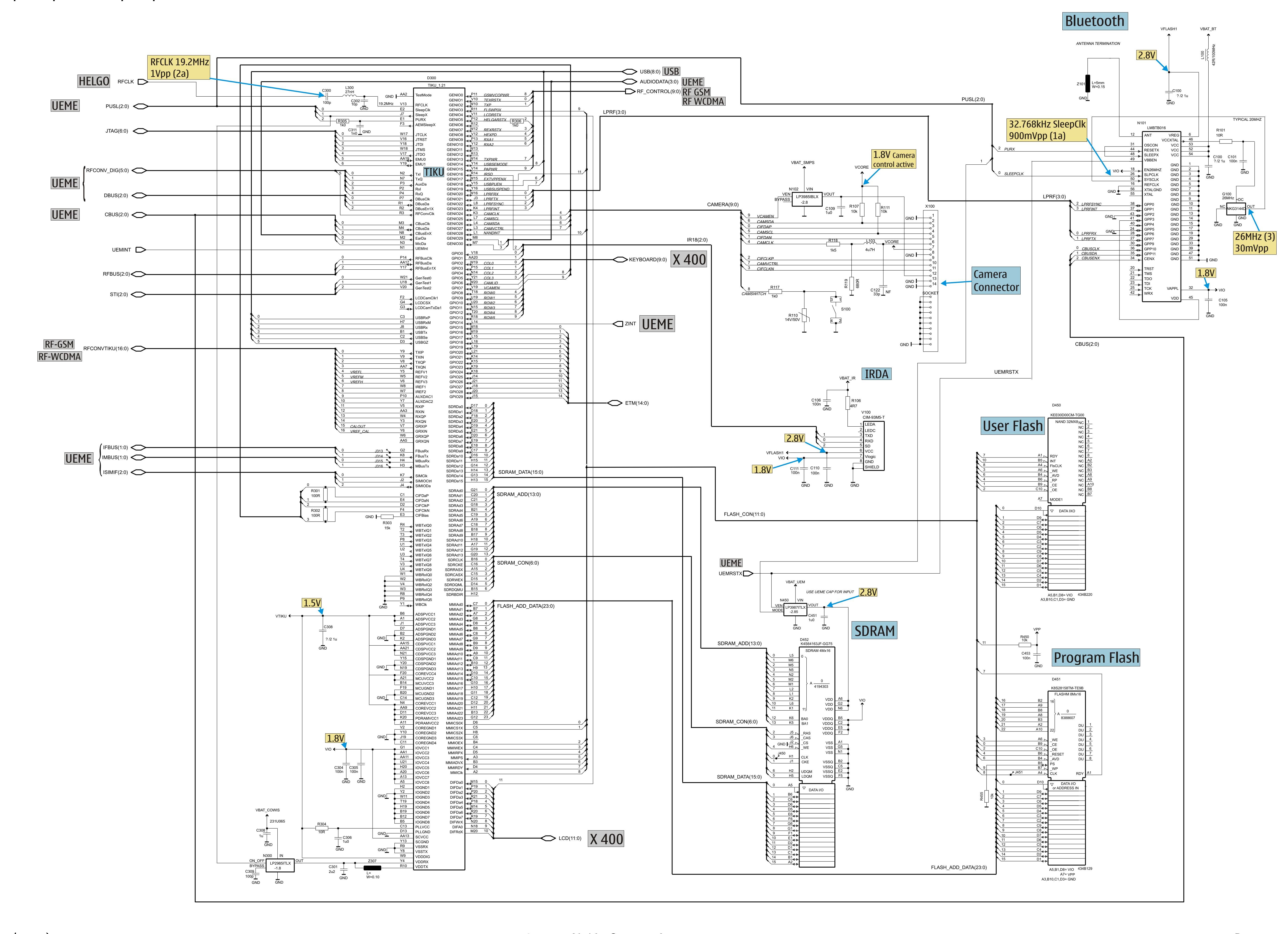
Title: USB & System Connector



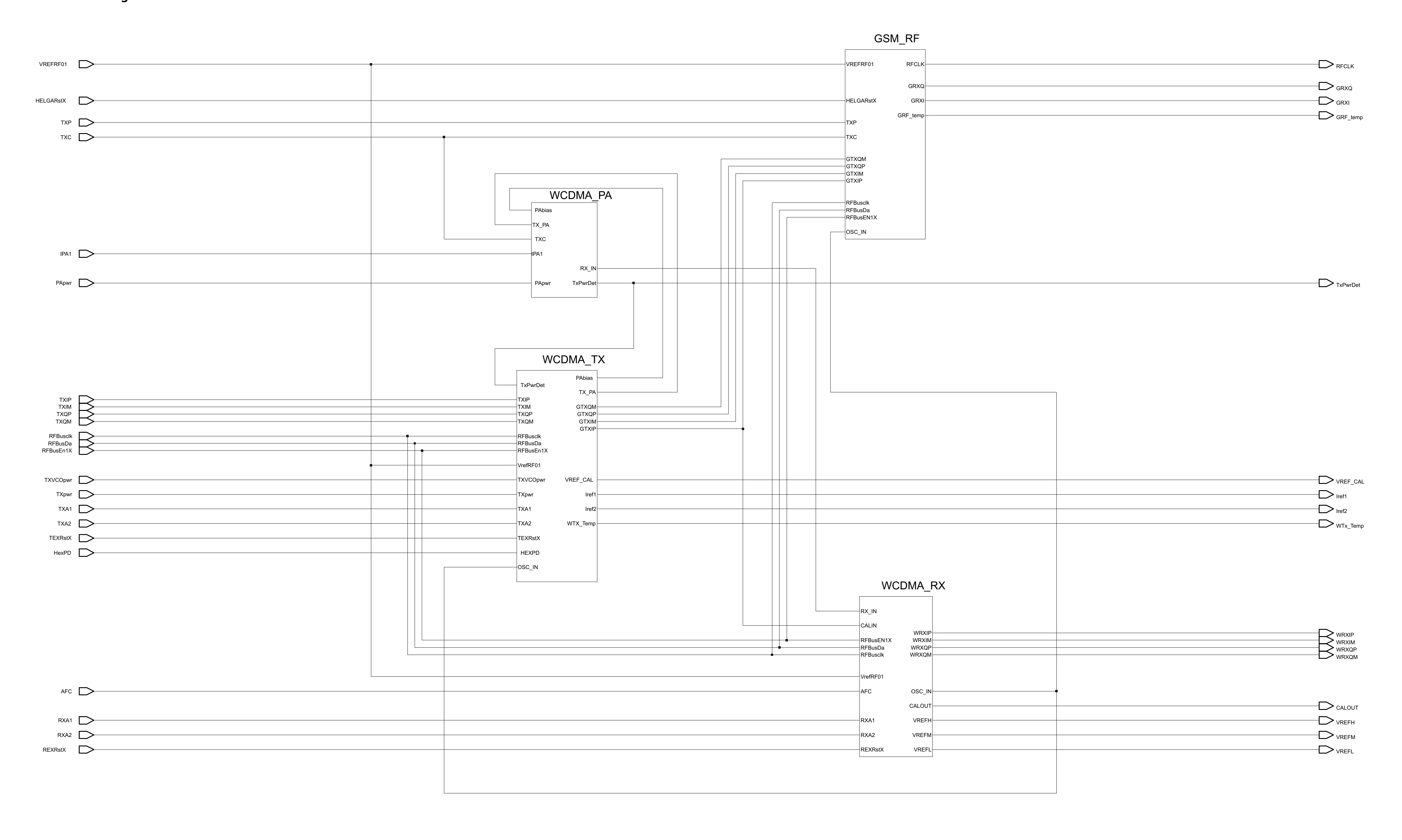
Title: UEME Display



Title: TIKU, Flash, Bluetooth, Irda, Camera

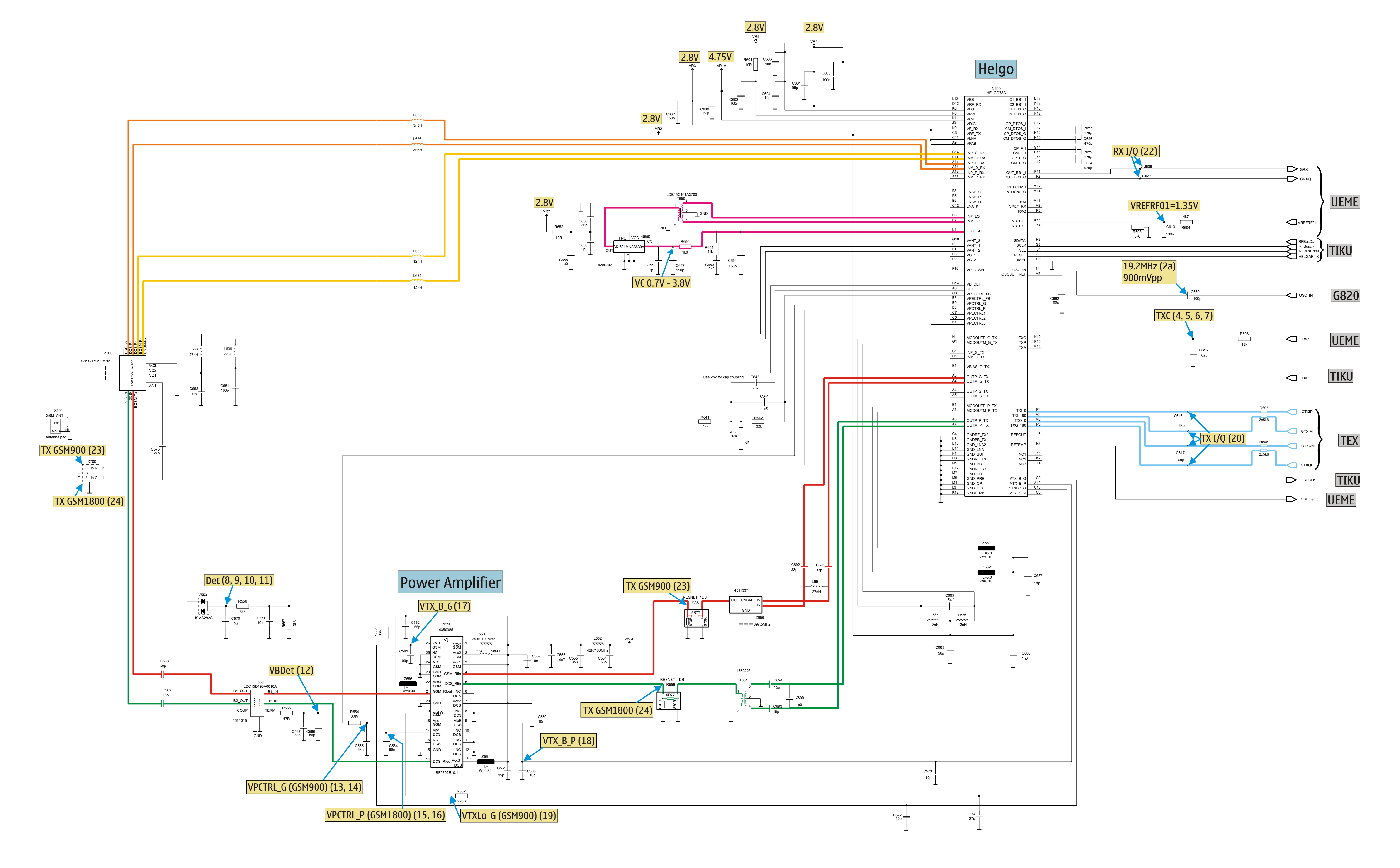


Title: RF Block Diagram



Title: RF GSM

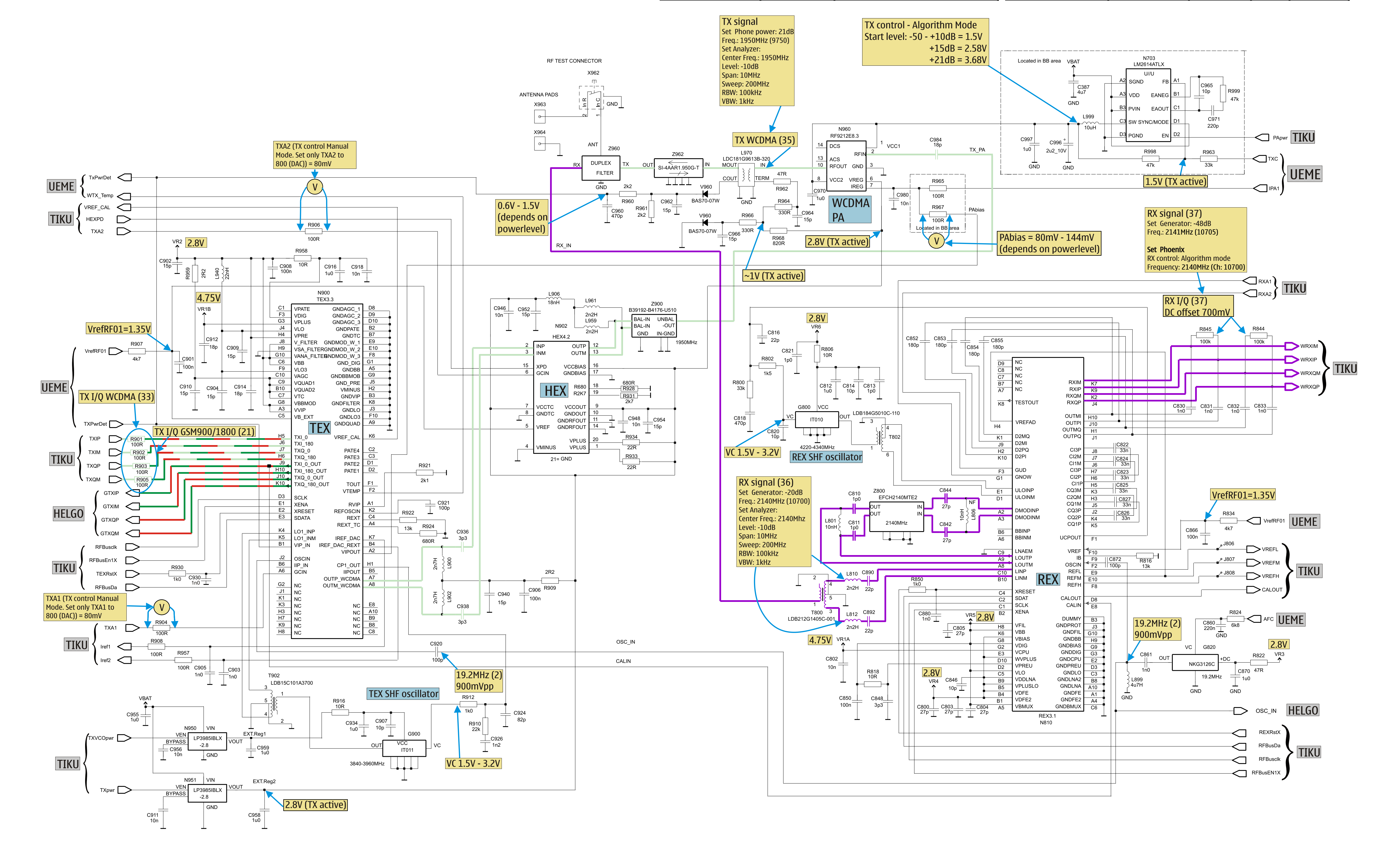
Band	Channel	RX	VC/RX	VCO/RX	TX	VCO/TX	VC/TX
GSM 900	37	942,4MHz	~2,54V	3769,6MHz	897,4MHz	3589,6MHz	~1,8V
GSM 1800	700	1842,8MHz	~2,2V	3685,6MHz	1747,8Mhz	3495,6MHz	~1,4V



Title: RF WCDMA

WCDMA Direction	Channel	Frequence	VC/TX	VCO/TX
TX Uplink (UL)	9612 (Low)	1922,4MHz	~2,50V	3844,8MHz
	9750 (Middle)	1950,0MHz	~2,78V	3900,0MHz
	9888 (High)	1977,6MHz	~3,24V	3955,2MHz

WCDMA Direction	Channel	Frequence	VC/RX	VCO/RX
RX Downlink (DL)	10562 (Low)	2112,4MHz	~1,62V	4224,8MHz
	10700 (Middle)	2140,0MHz	~2,26V	4280,0MHz
	10838 (High)	2167,6MHz	~2,95V	4335,2MHz

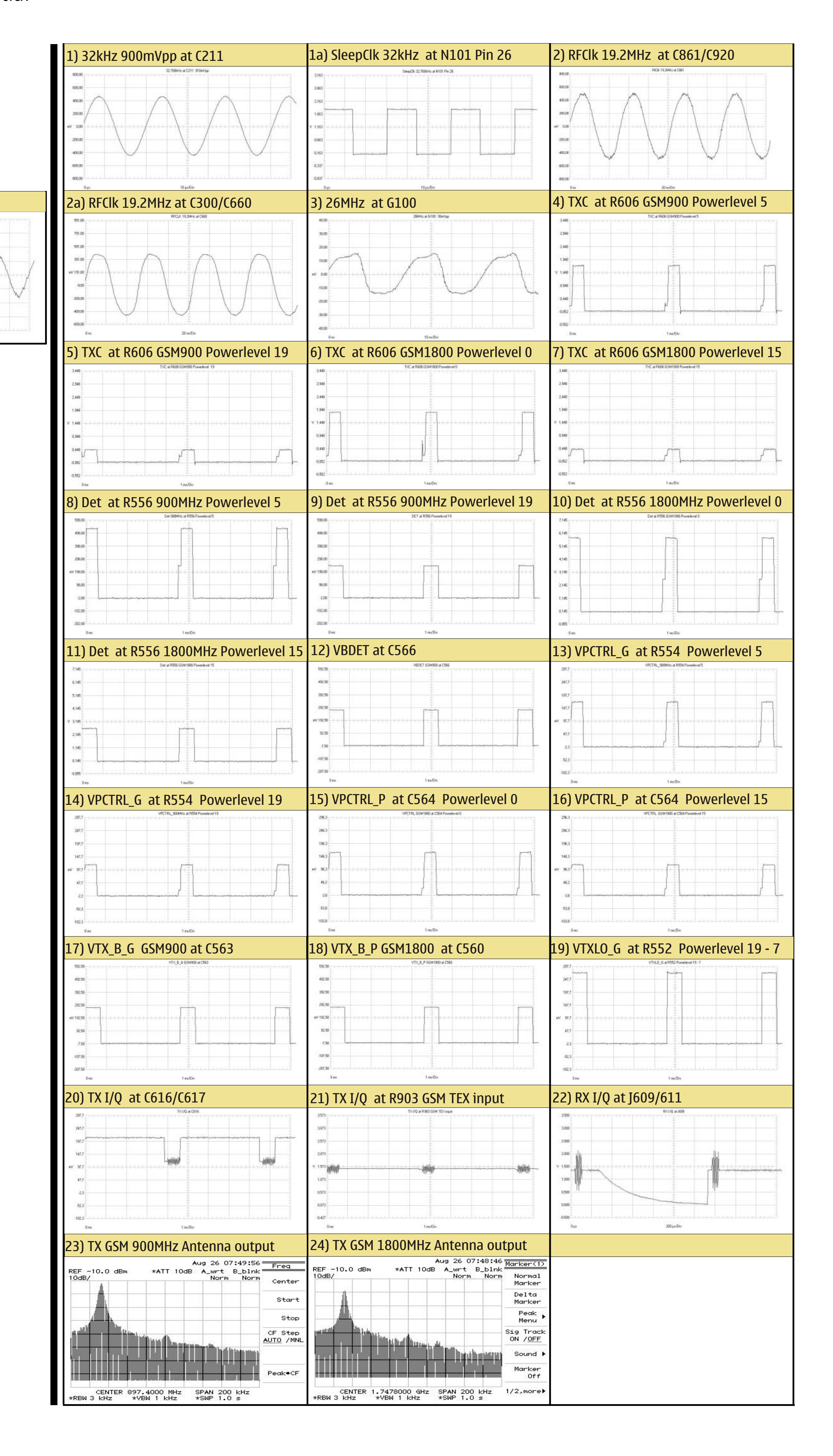


Title: Signal Overview

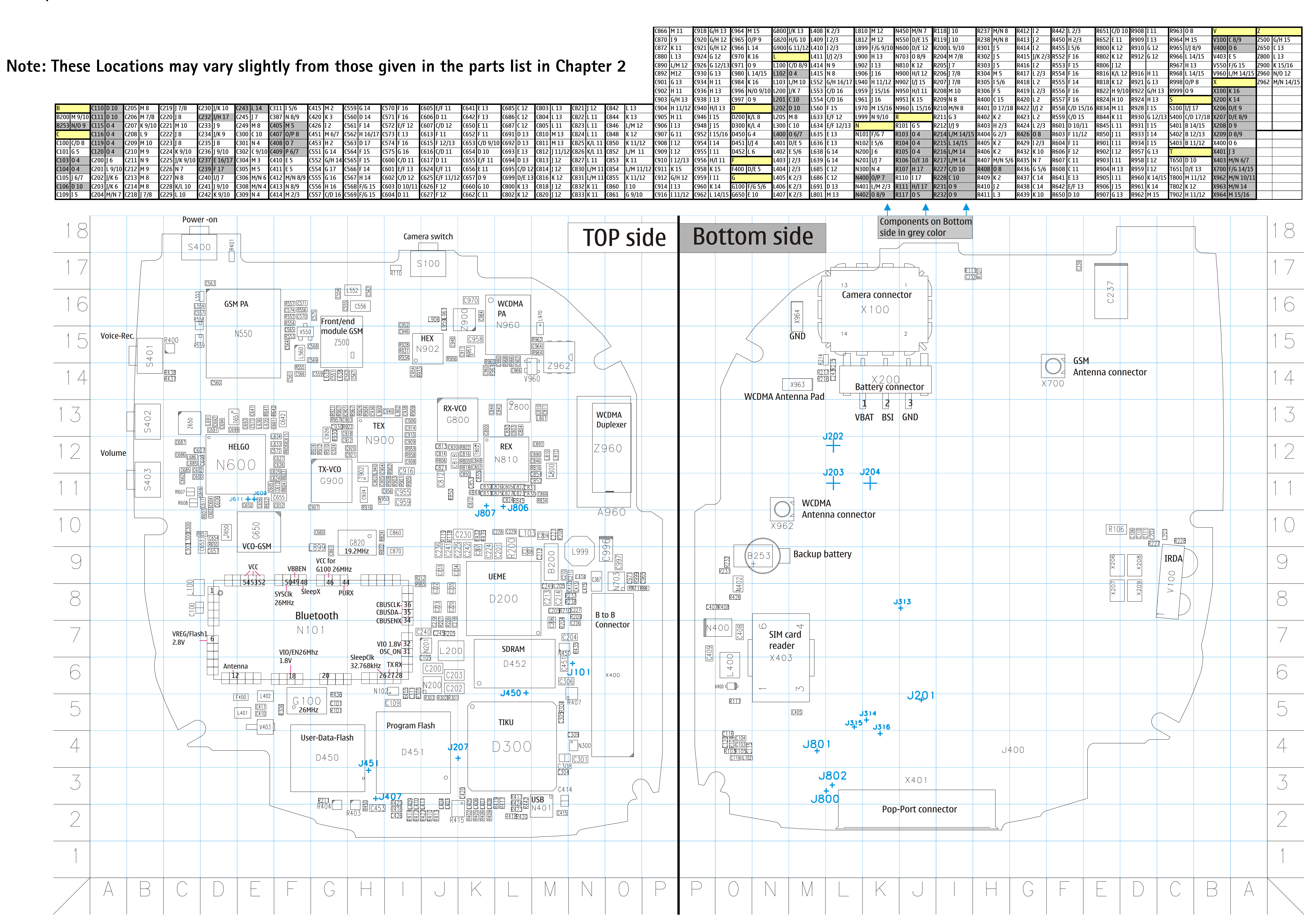
WCDMA

33) TX I/Q Algorithm mode 21dBm at R901
34) TX WCDMA at C984
35) TX WCDMA at L970 in
36) RX WCDMA at L810/L812
37) RX I/Q at R845/R844

Power -on
S400
Camera switch
S100
Voice-Rec.
S401
GSM PA
N550
Front/end module GSM
Z500
HEX
N902
WCDMA PA
N960
Z962
V960
S402
Volume
S403
HELGO
N600
TEX
N900
RX-VCO
G800
REX
N810
TX-VCO
G900
WCDMA Duplexer
Z960
A960
VCO-GSM
G650
G820
19.2MHz
L999
B200
D200
UEME
Bluetooth
N101
B to B Connector
X400
SDRAM
D452
TIKU
D300
G100
26MHz
User-Data-Flash
D450
Program Flash
D451
USB
N401
VrefRF01=1.35V
VR4=2.8V
VR3=2.8V
VR2=2.8V
VR1A=4.75V
VR5=2.8V
VR1B=4.75V
VR6=2.8V
VR7=2.8V
VC 0.7-3.8V
1.5V - 3.68V
VrefRF02=1.35V
AFC
VCC
VBBEN
VCC for G100 26MHz
SYSClk 26MHz
SleepX
PURX
CBUSCLK
CBUSDA
CBUSENX
VREG/Flash1 2.8V
VIO/EN26MHz 1.8V
SleepClk 32.768kHz
VIO 1.8V
OSC_ON
TX RX
Antenna
J609
J611
J807
J806
J808
J101
J450
J207
J451
J407



Title: Component Finder



Note: These Locations may vary slightly from those given in the parts list in Chapter 2

B		C110	D 10	C205	M 8	C219	J 7/8	C230	J/K 10	C243	L 14	C311	I 5/6	C415	M 2	C559	G 14	C570	F 16	C605	E/F 11	C641	E 13	C685	C 12	C803	L 13	C821	J 12	C842	L 13
B200	M 9/10	C111	D 10	C206	M 7/8	C220	J 8	C232	I/H 17	C245	J 7	C387	N 8/9	C420	K 3	C560	D 14	C571	F 16	C606	D 11	C642	F 13	C686	C 12	C804	L 13	C822	L 11	C844	K 13
B253	N/O 9	C115	O 4	C207	K 9/10	C221	M 10	C233	J 9	C249	M 8	C405	M 5	C426	I 2	C561	F 14	C572	E/F 12	C607	C/D 12	C650	E 11	C687	C 12	C805	L 11	C823	L 11	C846	L/M 12
C		C116	O 4	C208	L 9	C222	J 8	C234	J/K 9	C300	C 10	C407	O/P 8	C451	M 6/7	C562	H 16/17	C573	E 13	C613	F 11	C652	F 11	C691	D 13	C810	M 13	C824	L 11	C848	K 12
C100	C/D 8	C119	O 4	C209	M 10	C223	J 8	C235	J 8	C301	N 4	C408	O 7	C453	H 2	C563	D 17	C574	F 16	C615	F 12/13	C653	C/D 9/10	C692	D 13	C811	M 13	C825	K/L 11	C850	K 11/12
C101	G 5	C120	O 4	C210	M 9	C224	K 9/10	C236	J 9/10	C302	C 9/10	C409	P 6/7	C551	G 14	C564	F 15	C575	G 16	C616	C/D 11	C654	D 10	C693	E 13	C812	J 11/12	C826	K/L 11	C852	L/M 11
C103	O 4	C200	J 6	C211	N 9	C225	J/K 9/10	C237	E 16/17	C304	M 3	C410	E 5	C552	G/H 14	C565	F 15	C600	C/D 11	C617	D 11	C655	E/F 11	C694	D 13	C813	J 12	C827	L 11	C853	K 11
C104	O 4	C201	L 9/10	C212	M 9	C226	N 7	C239	F 17	C305	M 5	C411	E 5	C554	G 17	C566	F 14	C601	E/F 13	C624	E/F 11	C656	E 11	C695	C/D 12	C814	J 12	C830	L/M 11	C854	L/M 11/12
C105	J 6/7	C202	J/K 6	C213	M 8	C227	N 8	C240	I/J 7	C306	M/N 6	C412	M/N 8/9	C555	G 16	C567	H 14	C602	C/D 12	C625	E/F 11/12	C657	D 9	C699	D/E 13	C816	K 12	C831	L/M 11	C855	K 11/12
C106	D 10	C203	J/K 6	C214	M 8	C228	K/L 10	C241	J 9/10	C308	M/N 4	C413	N 8/9	C556	H 16	C568	F/G 15	C603	D 10/11	C626	F 12	C660	G 10	C800	K 13	C818	J 12	C832	K 11	C860	I 10
C109	I 5	C204	M/N 7	C218	J 7/8	C229	L 10	C242	K 9/10	C309	N 4	C414	M 2/3	C557	C/D 16	C569	F/G 15	C604	D 11	C627	F 12	C662	C 11	C802	K 12	C820	J 12	C833	K 11	C861	G 9/10

C866	M 11	C918	G/H 13	C964	M 15	G800	J/K 13	L408	K 2/3	L810	M 12	N450	M/N 7	R118	J 10	R237	M/N 8	R412	I 2	R442	L 2/3	R651	C/D 10	R908	I 11	R963	O 8	V		Z	
C870	I 9	C920	G/H 12	C965	O/P 9	G820	H/G 10	L409	I 2/3	L812	M 12	N550	D/E 15	R119	J 10	R238	M/N 8	R413	J 2	R450	H 2/3	R652	E 11	R909	I 13	R964	M 15	V100	C 8/9	Z500	G/H 15
C872	K 11	C921	G/H 12	C966	L 14	G900	G 11/12	L410	I 2/3	L899	F/G 9/10	N600	D/E 12	R200	L 9/10	R301	J 5	R414	I 2	R455	I 5/6	R800	K 12	R910	G 12	R965	I/J 8/9	V400	O 6	Z650	C 13
C880	L 13	C924	G 12	C970	K 16	L		L411	I/J 2/3	L900	H 13	N703	O 8/9	R204	M 7/8	R302	J 5	R415	J/K 2/3	R552	F 16	R802	K 12	R912	G 12	R966	L 14/15	V403	E 5	Z800	L 13
C890	L/M 12	C926	G 12/13	C971	O 9	L100	C/D 8/9	L414	N 9	L902	I 13	N810	K 12	R205	J 7	R303	J 5	R416	I 2	R553	F 15	R806	J 12			R967	H 13	V550	F/G 15	Z900	K 15/16
C892	M12	C930	G 13	C980	L 14/15	L102	O 4	L415	N 8	L906	J 16	N900	H/I 12	R206	J 7/8	R304	M 5	R417	L 2/3	R554	F 16	R816	K/L 12	R916	H 11	R968	L 14/15	V960	L/M 14/15	Z960	N/O 12
C901	G 13	C934	H 11	C984	K 16	L103	L/M 10	L552	G/H 16/17	L940	H 11/12	N902	I/J 15	R207	J 7/8	R305	I 5/6	R418	L 2	R555	F 14	R818	K 12	R921	G 13	R998	O/P 8	X		Z962	M/N 14/15
C902	H 11	C936	H 13	C996	N/O 9/10	L200	J/K 7	L553	C/D 16	L959	J 15/16	N950	H/I 11	R208	M 10	R306	F 5	R419	L 2/3	R556	F 16	R822	H 9/10	R922	G/H 13	R999	O 9	X100	K 16		
C903	G/H 13	C938	I 13	C997	O 9	L201	C 10	L554	C/D 16	L961	J 16	N951	K 15	R209	N 8	R400	C 15	R420	L 2	R557	F 16	R824	H 10	R924	H 13	S		X200	K 14		
C904	H 11/12	C940	H/I 13	D		L202	D 10	L560	F 15	L970	M 15/16	N960	L 15/16	R210	M/N 8	R401	D 17/18	R422	I/J 2	R558	C/D 15/16	R834	M 11	R928	I 15	S100	I/J 17	X206	D/E 9		
C905	H 11	C946	I 15	D200	K/L 8	L205	M 8	L633	E/F 12	L999	N 9/10	R		R211	G 3	R402	K 2	R423	L 2	R559	C/D 15	R844	K 11	R930	G 12/13	S400	C/D 17/18	X207	D/E 8/9		
C906	I 13	C948	J 15	D300	K/L 4	L300	C 10	L634	E/F 12/13	N		R101	G 5	R212	I/J 9	R403	H 2/3	R424	L 2/3	R601	D 10/11	R845	L 11	R931	I 15	S401	B 14/15	X208	D 9		
C907	G 11	C952	I 15/16	D450	G 4	L400	O 6/7	L635	E 13	N101	F/G 7	R103	O 4	R214	L/M 14/15	R404	G 2/3	R426	O 8	R603	F 11/12	R850	J 11	R933	I 14	S402	B 12/13	X209	D 8/9		
C908	I 12	C954	I 14	D451	I/J 4	L401	D/E 5	L636	E 13	N102	I 5/6	R104	O 4	R215	L 14/15	R405	K 2	R429	I 2/3	R604	F 11	R901	I 11	R934	I 15	S403	B 11/12	X400	O 6		
C909	I 12	C955	I 11	D452	L 6	L402	E 5/6	L638	G 14	N200	J 6	R105	O 4	R216	L/M 14	R406	K 2	R432	K 10	R606	F 12	R902	I 12	R957	G 13	T		X401	J 3		
C910	I 12/13	C956	H/I 11	F		L403	J 2/3	L639	G 14	N201	I/J 7	R106	D/E 10	R217	L/M 14	R407	M/N 5/6	R435	N 7	R607	C 11	R903	I 11	R958	I 12	T650	D 10	X403	M/N 6/7		
C911	K 15	C958	K 15	F400	D/E 5	L404	J 2/3	L685	C 12	N300	N 4	R107	H 17	R227	C/D 10	R408	O 8	R436	G 5/6	R608	C 11	R904	H 13	R959	I 12	T651	D/E 13	X700	F/G 14/15		
C912	G/H 12	C959	I 11	G		L405	K 2/3	L686	C 12	N400	O/P 7	R110	I 17	R228	C 10	R409	K 2	R437	C 14	R641	E 13	R905	I 11	R960	K 14/15	T800	M 11/12	X962	M/N 10/11		
C914	I 13	C960	K 14	G100	F/G 5/6	L406	K 2/3	L691	D 13	N401	L/M 2/3	R111	H/I 17	R231	O 9	R410	J 2	R438	C 14	R642	E/F 13	R906	J 15	R961	K 14	T802	K 12	X963	M/N 14		
C916	I 11/12	C962	L 14/15	G650	E 10	L407	K 2/3	L801	M 13	N402	O 8/9	R117	O 5	R232	O 9	R411	L 3	R439	K 10	R650	D 10	R907	G 13	R962	M 15	T902	H 11/12	X964	M 15/16		